

## Theoretical conformational analysis of substituted nitroethenes in solution

Chachkov D., Gazizova A., Vereshchagina Y., Ishmaeva E., Berestovitskaya V.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### Abstract

Theoretical conformational analysis of 1-nitro- and 1-bromo-1-nitro-2- (trichloromethyl)ethenes dissolved in methylene chloride and benzene was carried out by the B3LYP/6-31G\*method. The calculated structures of these compounds were found to nicely fit experiment: Both in the gas phase and in solution, 1-nitro-(2-trichloromethyl)ethene is an E isomer, while its bromine-containing analog is a Z isomer. © 2008 MAIK Nauka.

<http://dx.doi.org/10.1007/s11176-008-2016-8>

---